Manual for PHP, Composer, PHPUnit

- **Setting up PHP--**

1. Click on this <u>link</u> to download the PHP zip file and then unzip the file and copy the files inside that zip to the "**C drive**" by creating a new folder named after "**php-version**".

2. Later on, copy the path of that folder and add it to the System variable "**path**".

Edit the system environment variable>Environment variables>System variables>Double click on "Path">New>Paste the copied path here>Press OK>Press OK>Done!

- **Setting up Composer –**

1. Click on this <u>link</u> to download the executable Composer installation file and run it.

2. Write "**composer**" in the in CMD (Command Prompt) for successful installation confirmation.

- **Setting up PHPUnit –**

1. Create a new folder for your project, I named mine as "phpunit".

2. Navigate to the created folder in CMD (Command Prompt). For example, if your project folder is in Desktop, simply write and run "**cd desktop**" or just copy the path from the address bar of your project directory and then type "**cd project_folder_name**". To illustrate, in my case it is "**cd phpunit**").

3. Once in the directory within CMD write the following to install PHPUnit in that particular directory "composer require phpunit/phpunit".

4. Switch to bin folder by typing "**cd .\vendor\bin**" and try running PHPUnit by simply writing "phpunit" in CMD.

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▪ **Setting up the json and xml files for PHPUnit --**

1. Inside the phpunit or project folder create two more folders named "**tests**" and "**app**".

2. There will be a json file in your project folder named "**composer.json**" open this file and replace the codes with the following:

```
{
"require": {
"phpunit/phpunit": "^5.7"
},
"autoload": {
"psr-4": {
"App\\": "app"
}
}
}
```

3. Now, go back to CMD and write the following "**composer dump-autoload -o**".

```
Generating optimized autoload files
Generated optimized autoload files containing 1066 classes
```

4. After this, create a new file called "phpunit.xml" under the project folder and add the following code to it:

```
<?xml version="1.0" encoding="UTF-8"?>
<phpunit bootstrap="vendor/autoload.php" colors="true"
verbose="true" stopOnFailure="false">
<testsuites>
<testsuite name="Test suite">
<directory>tests</directory>
</testsuite>
</testsuites>
</phpunit>
```

5. In CMD check if everything is working by writing " **cd ..** " twice and come back to the project directory" and then type ".**\vendor\bin\phpunit**" , it should show "**No tests executed!**" if it doesn't you did something wrong in the previous steps.

```
Runtime:       PHP 8.0.2
Configuration: C:\Users\user\OneDrive\Desktop\phpunit\phpunit.xml

No tests executed!
```